EAST Browser - L4: (105) 3 and (delet... | US 5740161 A | Tag: S | Doc: 89/105 | Format : KWIC

File Edit View Tools Window Help

mentation an application services unit, discussed in more detail below, maintains a record of the current page being displayed for each of the applications being used in the conference which are being executed at the endpoint. Thus, by accessing this record, the present invention can readily determine the current page selected.

The present invention also determines the position in the page which is selected. In one embodiment, the view synchronization location is selected using a pointing device. The user selects a particular location for view synchronization, such as by depressing and releasing a mouse button when the pointer is over the desired location. The present invention, based on the coordinates of the selection, determines the location of that selection within the current page.

In one embodiment, the operating system of the endpoint maintains a record of each application being executed at the endpoint. This record includes a mapping of the display of the application on the display device to the physical memory locations which store the page. Thus, when a particular location of a document is selected, the present invention can readily determine, by sending a message to the operating system in a conventional manner, the location within the page which is selected.

Once the view synchronization location is determined, the local endpoint updates the viewed information to display the selected location, step 420. In one embodiment of the present invention, this updating is a centering process which centers the view synchronization location by determining an offset from the beginning of the page to the upper left-hand corner of the image being displayed when the selected location is displayed in the center of the display window. The present invention identifies a location within the page which should be in the upper left-hand corner of the display window in order for the selected view synchronization location to be in the center of the display window. The identification of this upper left-hand corner location is calculated in a conventional manner based on the selected view synchronization location and the size of the display window. Once the upper left-hand corner location is determined, an offset from the beginning of the page to the upper left-hand corner is determined in a conventional manner based on the size of the page and the position of the location within the page. The present invention then sends a message to the operating system to change the display

example, the image display may be adjus
synchronization location is displayed in
corner of the display window, at the top o
window, or any other location within th

Once the viewed information is cente
point then sends a message to the othe
system, step 425. This message include
and a page location which indicate the vi
location (that is, the selected point from

The local endpoint then checks wheth
view synchronization confirmation mess
endpoints in the conference, step 430. If
endpoint continues to check, step 430. It
that the local endpoint can continue pro
and instructions while waiting to receiv
message(s). Once a view synchronizatio
sage has been received from each of the
the conference, the local endpoint prov
that the view synchronization is compl

In an alternate embodiment of the pre
430 and 435 are not performed by the loc
embodiment, the view synchronization
at step 425; the local endpoint does not p
to the user that the view synchronizat
pleted.

In another alternate embodiment of th
the centering step 420 is optional.
embodiment, no adjustment of the vie
made at the local endpoint. For exa
location may already be displayed by
when the view synchronization locatio
there is no need to center the viewed
alternate embodiment because the desire
being displayed.

In another alternate embodiment, th
includes a counter, timer, or similar me
monitor the loop at step 430 correspondi
being received from all other endpoint
embodiment, if the counter expires the
nization at the local endpoint ends, byp
one implementation, the local endpoint
tion (not shown) that the view synch
completed at all remote endpoints. Thus
tion can avoid the possibility of an infin

FIG. 5 is a flowchart showing the

Details Text Image HTML Full

US-PAT-NO: 5740161

DOCUMENT-IDENTIFIER: US 5740161 A

TITLE: Method and apparatus for synchronizing viewed information in a conferencing environment

——— KWIC ———

Detailed Description Text - DETX (13):

The computer system 300 generally comprises a processor-memory bus or other communication means 301 for communicating information between one or more processors 302 and 303. Processor-memory bus 301 includes address, data and control buses and is coupled to multiple devices or agents. Processors 302 and 303 may include a small, extremely fast internal cache memory (not shown), commonly referred to as a level one (L1) cache memory for temporarily storing data and instructions on-chip. In addition, a bigger, slower level two (L2) cache memory 304 can be coupled to processor 302 or processor 303 for temporarily storing data and instructions for use by the processor. In one embodiment, processors 302 and 303 are Intel.RTM. Architecture compatible microprocessors, such as i386.TM., i486.TM., or Pentium.RTM. processors. However, the present invention may utilize any type of microprocessor, including different types of processors.

Detailed Description Text - DETX (57):

Conference application layer 705 includes conference manager 725 and multiple applications 730. Conference manager 725 provides a conferencing interface to the user of the end point. In one embodiment, the conferencing interface is a graphical user interface (GUI). In one implementation, conference manager 725 includes options, such as through a menu, which allows the end point user to add or delete applications to the conference.

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EAST Browser - L3: (480) 2 and memory | US 5973734 A | Tag: S | Doc: 460/480 | Format : KWIC

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US005973734A

United States Patent [19]

Anderson

[11] Patent Number: 5,973,73

[45] Date of Patent: Oct. 26, 19

[54] METHOD AND APPARATUS FOR CORRECTING ASPECT RATIO IN A CAMERA GRAPHICAL USER INTERFACE

[75] Inventor: Eric C. Anderson, San Jose, Calif.

[73] Assignee: FlashPoint Technology, Inc., San Jose, Calif.

[21] Appl. No.: 08/891,434

[22] Filed: Jul. 9, 1997

[51] Int. Cl.[6] H04N 5/228

[52] U.S. Cl. 348/239; 348/222

[58] Field of Search 348/207, 222, 348/238, 333, 336, 96, 97, 98, 465, 550; 382/311, 373, 374; 358/518, 527, 909.1, 437; 345/132, 136, 139; 382/232, 233; H04N 5/225

[56] References Cited

U.S. PATENT DOCUMENTS

5,448,372 9/1995 Axman et al. 348/

5,519,720 4/1997 Fenicchia et al. 370/

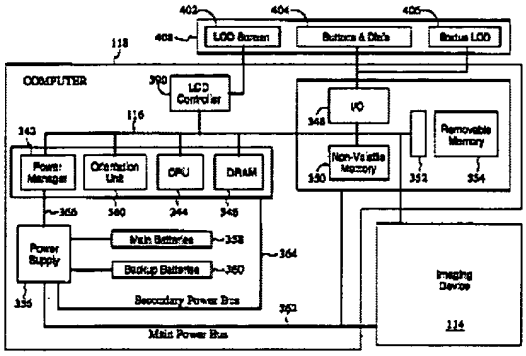
Primary Examiner—Chris V. Ho

Attorney, Agent, or Firm—Skjerven & Associates

[57] ABSTRACT

A method and system for correcting the aspect ratio of [illegible] image captured by a digital camera is disclosed. In a[n] aspect, the method and system include determining if [illegible] image requires cropping, decompressing the image, [illegible] cropping the image if the image required cropping. T[illegible] image is then provided to a display. In another aspect, [illegible] method and system include cropping an image to a pre[illegible] truncated shape and providing the data to a display buffe[illegible]

18 Claims, 13 Drawing Sheets



Details | Text | Image | HTML | Full

it to fit on the
LCD 402. Whether or not to decompress and display the compressed image data
604 depends on the resolution of the display and the resolution of the
screennail images 608.

Detailed Description Text - DETX (27):
The raw image data is then used to generate an enhanced image file 600 for
the captured image including the compressed image data 604, the thumbnail 606,
and the screennail 608, as shown in FIG. 6.

Detailed Description Text - DETX (28):
When generating the thumbnail and screennail images 606 and 608, the present
invention takes advantage of the fact that the YCC data in the frame buffers
536 has already been processed by the live view generation process 612 and
stored at the reduced resolution of the LCD screen 402. Since the thumbnail
and screennail images 606 and 608 are also intended to be lower-resolution
representations of the captured image, the previously processed YCC data in the
frame buffers 536 is used to generate the thumbnail 606 and screennail 608
directly, rather than using the raw image data stored in the input buffers 538.

Detailed Description Text - DETX (29):
To generate the screennail image 608, the YCC data in the frame buffers 536
is converted from YCC 222 format into YCC 422 format and compressed by a
conversion and compression process 614. To generate the thumbnail image 606,
the YCC data in the frame buffers 536 is converted from the YCC 222 format into
YCC 422 format and then resized by a conversion and resizing process 616.
During the conversion and resizing process 616, the thumbnail image 606 may be
resized by averaging in which a block of pixel values from the YCC 422 data are
averaged to represent one pixel value of the thumbnail image

Details | Text | Image | HTML | KWIC

US005973734A

United States Patent [19]

Anderson

[11] Patent Number: 5,973,73

[45] Date of Patent: Oct. 26, 19

[54] METHOD AND APPARATUS FOR CORRECTING ASPECT RATIO IN A CAMERA GRAPHICAL USER INTERFACE

[75] Inventor: Eric C. Anderson, San Jose, Calif.

[73] Assignee: FlashPoint Technology, Inc., San Jose, Calif.

[21] Appl. No.: 08/931,434

[22] Filed: Sep. 9, 1997

[51] Int. Cl.[6] H04N 5/228

[52] U.S. Cl. 348/239; 348/222

[58] Field of Search 348/207, 222, 348/239, 333, 350, 96, 97, 98, 465, 552; 395/311, 373, 374; 358/513, 527, 509.1, 437; 345/133, 155, 192; 382/222, 235; H04N 5/225

[56] References Cited

U.S. PATENT DOCUMENTS

5,448,372 9/1995 Axman et al. 348/

5,519,720 4/1997 Fenwick et al. 370/6

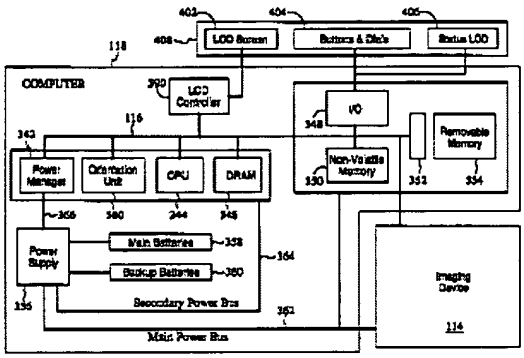
Primary Examiner—Chau V. Ho

Attorney, Agent, or Firm—Skjerven & Associates

[57] ABSTRACT

A method and system for correcting the aspect ratio of images captured by a digital camera is disclosed. In one aspect, the method and system include determining if the image requires cropping, decompressing the image, cropping the image if the image required cropping, and the image is then provided to a display. In another aspect, the method and system include cropping an image to a predetermined shape and providing the data to a display buffer.

18 Claims, 13 Drawing Sheets



The raw image data is then used to generate an enhanced image file 600 for the captured image including the compressed image data 604, the thumbnail 606, and the screennail 608, as shown in FIG. 6.

Detailed Description Text - DETX (28):

When generating the thumbnail and screennail images 606 and 608, the present invention takes advantage of the fact that the YCC data in the frame buffers 536 has already been processed by the live view generation process 612 and stored at the reduced resolution of the LCD screen 402. Since the thumbnail and screennail images 606 and 608 are also intended to be lower-resolution representations of the captured image, the previously processed YCC data in the frame buffers 536 is used to generate the thumbnail 606 and screennail 608 directly, rather than using the raw image data stored in the input buffers 538.

Detailed Description Text - DETX (29):

To generate the screennail image 608, the YCC data in the frame buffers 536 is converted from YCC 222 format into YCC 422 format and compressed by a conversion and compression process 614. To generate the thumbnail image 606, the YCC data in the frame buffers 536 is converted from the YCC 222 format into YCC 422 format and then resized by a conversion and resizing process 616. During the conversion and resizing process 616, the thumbnail image 606 may be resized by averaging in which a block of pixel values from the YCC 422 data are averaged to represent one pixel value of the thumbnail image 606, and/or by sub-sampling the YCC 422 data in which only a certain number pixels in a block are used to represent one pixel in the thumbnail image 606.

Detailed Description Text - DETX (30):

Referring now to FIGS. 5A, 6 and 7, after the thumbnail image 606 and the

EAST Browser - L3: (480) 2 and memory | US 6552743 B1 | Tag: S | Doc: 390/480 | Format : KWIC

File Edit View Tools Window Help

US006552743B1

(12) United States Patent
Riesman

(10) Patent No.: US 6,552,743 B

(45) Date of Patent: Apr. 22, 20

(54) DIGITAL CAMERA-READY PRINTER

(75) Inventor: Paul Riesman, Palo Alto, CA (US)

(73) Assignee: Hewlett Packard Development Company, L.P., Houston, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(51) Int. Cl.[7] ... H04N 5/225

(56) References Cited

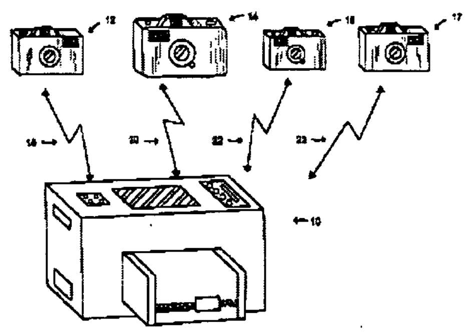
U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

* cited by examiner

(57) ABSTRACT

21 Claims, 6 Drawing Sheets



Details | Text | Image | HTML | Full

US-PAT-NO: 6552743

DOCUMENT-IDENTIFIER: US 6552743 B1

TITLE: Digital camera-ready printer

---------- KWIC ---------

Brief Summary Text - BSTX (15):

Contained within the digital camera-ready printer is a processor which is configured (e.g., programmed) to convert the original image file format of the digital image data into a predetermined format, for example, a JPEG. The processor also has the ability to edit and manipulate an electronic image represented by a frame of digital image data. A user interface and a display device integrated onto the digital camera-ready printer allow a user to view the electronic image and input the desired commands for editing and manipulating the electronic image. In a preferred embodiment, the display device includes a thumbnail display feature. The thumbnail display feature allows the user to view a number of electronic images, simultaneously, and facilitates a convenient means for the user to select a particular image for editing and/or printing. The editing and manipulating functions may include image cropping, image rotation, luminance alteration, zoom factor adjustment, and color adjustment. In the preferred embodiment, the display device is a liquid display device (LCD). In the most preferred embodiment, the display device is a 4 in..times.4 in. (10.16 cm.times.10.16 cm) color LCD which provides a high resolution electronic image.

Detailed Description Text - DETX (14):

As stated above in reference to FIG. 3, the display device 32 can be an LCD, preferably, a color LCD. In one embodiment, the display

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